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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/681,149	10/09/2003	Sang-Don Jang	1572.1166	8823

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EXAMINER

NOVOSAD, JENNIFER ELEANORE

ART UNIT PAPER NUMBER

3634

DATE MAILED: 01/09/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary**Application No.**

10/681,149

Applicant(s)

JANG, SANG-DON

Examiner

Jennifer E. Novosad

Art Unit

3634

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09 October 2003 and 24 October 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-32 is/are pending in the application.
- 4a) Of the above claim(s) 10-32 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-9 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 09 October 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☒ Certified copies of the priority documents have been received in Application No. 10/681,149.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>10/9/03; 10/14/05</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Election/Restriction

Applicant's election without traverse of Group I, i.e., claims 1-9, in the reply filed on October 24, 2005 is acknowledged.

Thus, claims 10-32 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1, 3, 6, and 9 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 is rendered indefinite by the recitations "support side edges" and "supporting a front edge" in lines 3 and 4, respectively. *In particular*, these *positive* recitations improperly seek to link positively recited structure, i.e., the supporters, to functionally recited structure, i.e., the edges of the glass. A functional recitation, such as --adapted to support--, should only be used when linking positive structure to functional structure. This rejection is also applicable to claim 3 (see lines 4 and 8).

Art Unit: 3634

Claims 6 and 9 are rendered indefinite since applicant improperly seeks to further define a functionally recited element, i.e., the transfer device which has been functionally set forth in claims 4 and 7, respectively. *Thus*, the claims fails to further limit the positive claimed structure of the cassette therefore making it unclear as to what the metes and bounds of the claim are.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-9 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 6,092,981 (Pfeiffer et al. '981).

Pfeiffer et al. '981 disclose a cassette (see Figures 9-11) comprising side frames (vertically extending elements in the left rear and right rear perspective in Figure 9), a rear frame (vertically extending element in the left front perspective) and a front frame (element 102 and the vertically extending element in the right front perspective) whereby each frame is cylindrical (at 62 in Figure 6) and each frame comprises a plurality of supporters (68 - see Figure 6) capable of supporting edges of a glass; the rear and front frames having a center supporter (66) disposed amid the plurality of supporters (68) whereby the center supporter (66) is longer (see Figure 6) than the rear and front supporters (68); the front frame (at 102) including an arm accommodator (hole therein) which allows a transfer device (120-130) to enter the cassette; and *with respect to claims 5 and 8*, the arm accommodator having a step shape (see bottom of Figure 9 which shows

Art Unit: 3634

a notched side on the left and right sides thereof) - it is noted that the claims do not require that the step shape needs to accommodate the transfer device.

With respect to claims 6 and 9, it is noted that although Pfeiffer et al. '981 do not disclose the transfer device as being a robot arm, the transfer device *is capable* of being a robot arm. In view of the Section 112, 2nd paragraph rejection, advanced above, the claim is not positively requiring the transfer device. *Thus*, a reference need only be capable of being used with such an element in order to meet the language of the claim. *Accordingly*, Pfeiffer et al. '981 are considered to be capable of being used with a robot arm, thereby meeting the claimed language.

Conclusion

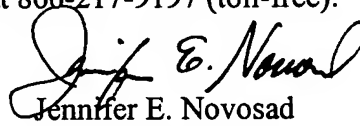
The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. U.S. Patent No. 4,872,554 shows a cassette having frames and supporters.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jennifer E. Novosad whose telephone number is 571-272-6832. The examiner can normally be reached on Monday-Thursday, 5:30am-4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard E. Chilcot can be reached on 571-272-6777. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 3634

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Jennifer E. Novosad
Primary Examiner
Art Unit 3634

January 5, 2006